

Highlights in pure::variants Release 6.0.4

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pure::variants Release 6.0.4



pure::variants 6.0.4 is a service release, which brings a number of notable feature additions and improvements, as well as important bug fixes:

- Improvements to the pure::variants Web Client create new transformation configurations, in-place editing, new filter functions on the compare model and project page and more
- Desktop Client enhancements and fixes with better usability, revision validation, syntax and semantic checks, JavaScript improvements
- Tool integration fixes and improvements drag & drop support, link propagation in IBM ELM tools, multiple authentication methods and other fixes in 3rd party tools
- Benefit from the most recent tool versions compatibility with newer versions of Windchill RV&S, codebeamer, IBM ELM and Eclipse



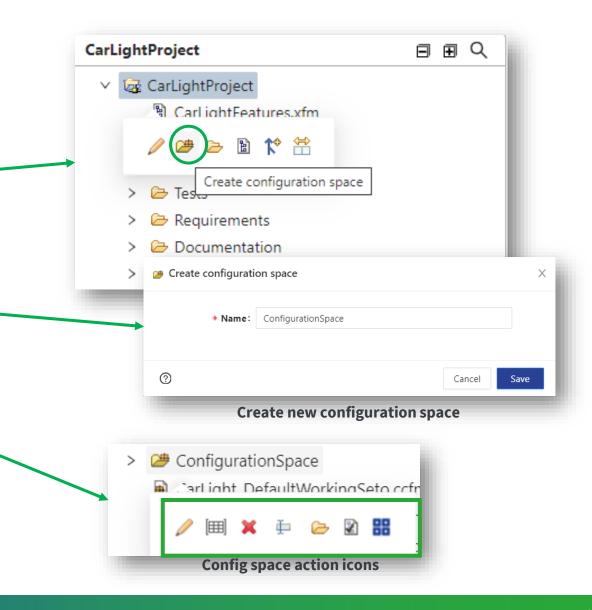
Improvements in pure::variants Web Client

Create Configuration Spaces



The Web Client now allows users to create configuration spaces. (PV-5667)

- Hover over a pure::variants project and click the new "Create configuration space" icon in the toolbox.
- After clicking the icon, a dialog box appears asking for the name of the new configuration space.
- Once created, different actions can be performed such as Open Matrix, Delete,
 Rename, Create Folder, Create Variant Model and Edit Properties.

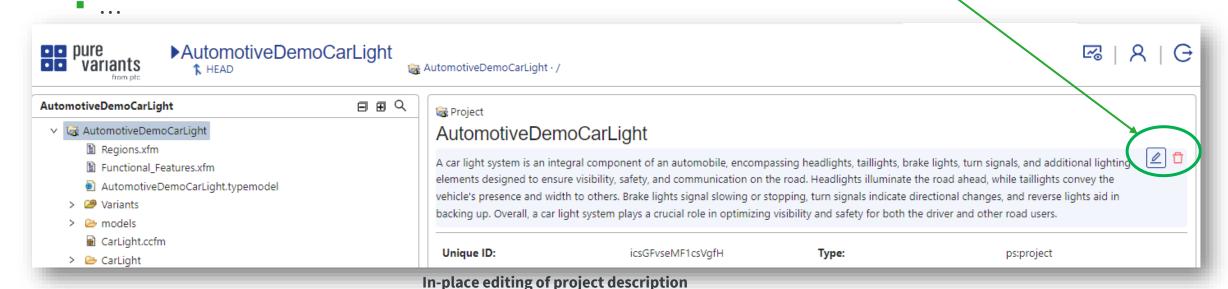


In-Place Editing



Streamline your workflow with **in-place editing** in the **Web Client**, eliminating the need for unnecessary opening of new dialog boxes. (**PV-5767**)

- In-place editing is possible for project items. Some examples:
 - Configuration space settings
 - Transformation settings
 - Project descriptions



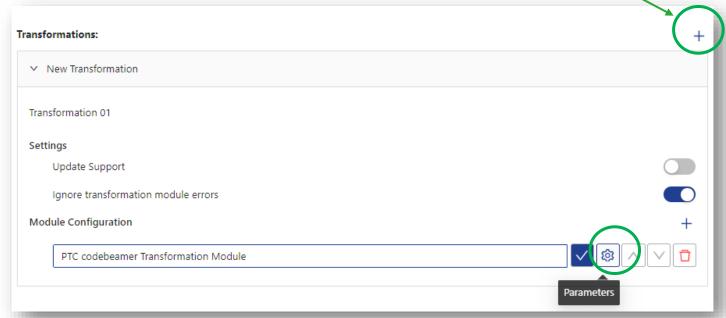
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Create New Transformation Configurations



Now, it is possible to seamlessly **create new transformation configurations** within the **Web Client**. You can also modify transformation configuration settings, rename, edit parameters, and more, all in an in-

place style. (PV-5668)

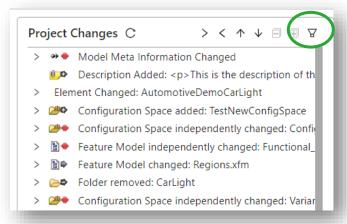


Create new transformation configurations & its settings

UI Improvements and Fixes



Review project and model changes with ease using the new filter function on the compare page.
 (PV-5662)



Filter project changes...

... or model changes.

- Fixed some UI glitches in the Web Client. (PV-5672, PV-5642, PV-5689, PV-5697)
- Increased stability of the pure::variants model server. (PV-5655, PV-5649, PV-5733)

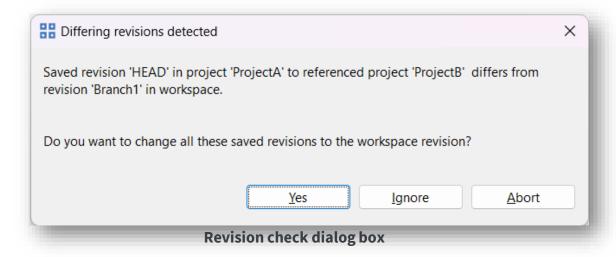


Improvements & Bug Fixes in the Desktop Client

Usability Improvements



Model server projects can reference specific revisions of other projects. Previously, it was difficult to
detect a mismatch between the stored revision and the revision currently loaded in the workspace.
 Now, a check is in place that helps users identify and resolve such mismatches. (PV-4887)

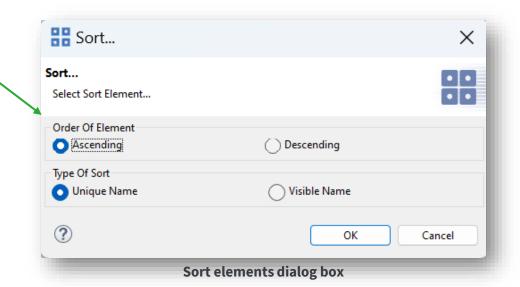


 Switching a model server project to a different revision failed to load referenced projects in certain cases. Fixed. (PV-5495)

Improvements and Fixes



- Syntax and semantic checks can now be executed in headless mode. Detect inconsistencies early as part of your CI/CD workflow and ensure that the actual variant transformation will succeed. (PV-4275)
- The new action Refactor > Sort allows to sort child elements in feature and family models in ascending or descending order based on unique name or visible name. (PV-5025)
- pure::variants JavaScript improvements:
 - Added getConfigurationSpacePaths to the public API, a function to list a project's configuration spaces.
 (PV-5580)
 - Published the JavaDoc of the pure_variants() context object. Check the JavaDoc of the classes PV and PVContext in the pure::variants Extensibility Guide to get information on all available methods. (PV-5765)





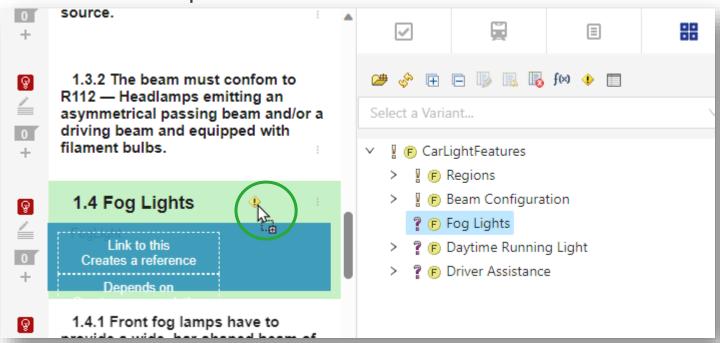
Integration Fixes & Enhancements

Drag & Drop for Restrictions and Calculations



Drag & drop support for adding restrictions and calculations in **codebeamer**, **IBM DOORS Next**, and **Siemens Polarion**. (PV-5273)

- Drag and drop a feature or family model element to add a restriction.
- Drag and drop an attribute into the requirements text to add a calculation.



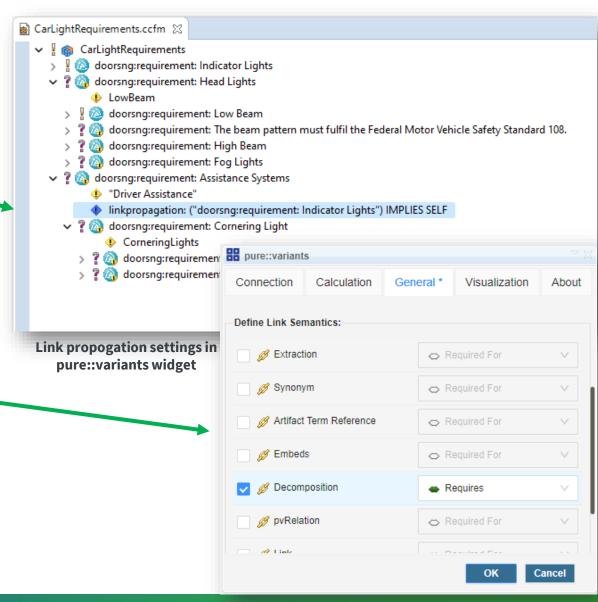
Adding a calculation to a codebeamer requirement using drag & drop

Link Propogation in IBM ELM



Write fewer restrictions in IBM DOORS Next and IBM Engineering Test Management through link propagation. (PV-2286, PV-4780, PV-4781)

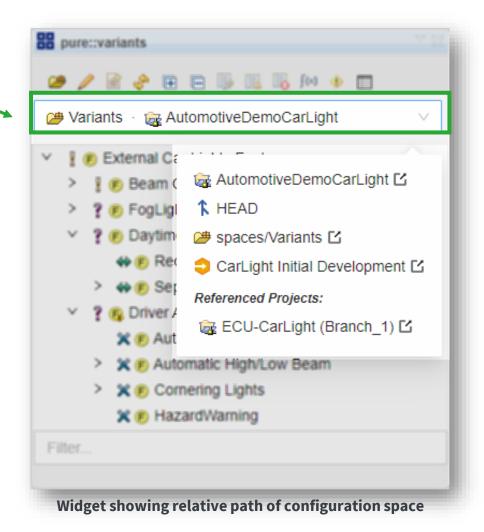
- Exploit existing links between artefacts to propagate one artefact's restriction onto another. Some examples:
 - Propagate a requirement's restriction to its associated test cases along a "tests" link.
 - Propagate a high-level requirement's restriction to its low-level requirements along a "refines" link.
- Define link type mappings conveniently in the settings of the IBM DOORS Next widget.
- Link propagation works within the same tool (e.g., only within DOORS Next) as well as across tools (i.e., between DOORS Next and ETM).
- Works with quick-mode and full-mode family models.



Notable Improvements



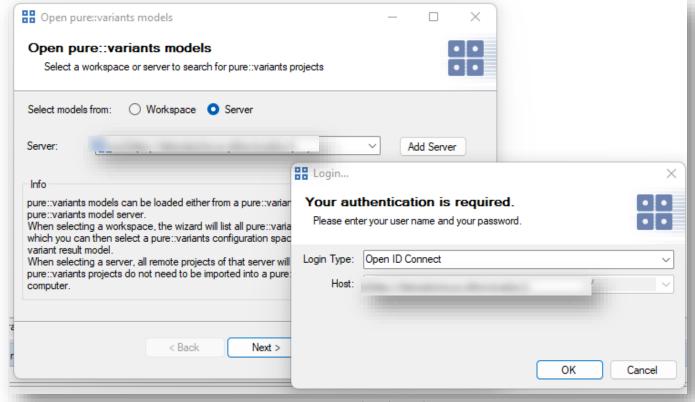
- All web-based integrations (Polarion, IBM DOORS Next and codebeamer) now indicate more clearly which configuration space is currently open. A tooltip provides additional details. (PV-3771)
- All web-based integrations also show the revision of the selected pure::variants project in Web Hub mode. (PV-4195)
- Support for partial text substitution in test steps for our IBM Engineering Test Management connector. (PV-3963)
- Associated test scripts at keywords are now considered during the transformation in IBM Engineering Test Management. (PV-5429)



Choices with Multiple Login Methods



All **pure::variants integrations** for desktop-based tools now allow choosing the authentication method when connecting to the model server. This enables setups in which a primary authentication method is backed up by a fallback authentication option. **(PV-5046)**



Model server authentication dialog box

Notable Fixes and Improvements



- Test-step annotation in codebeamer did not work when the "Critical" column of a test-step table is hidden. Fixed. (PV-5688)
- Improved error message if a transformation fails because of un-committed changes in IBM Engineering Systems Design Rhapsody. (PV-5683)
- Referenced work items in documents are now resolved correctly in Siemens Polarion. (PV-5431)
- The copy transformation now maintains item IDs to reuse and sync IDs for better traceability in Jama.
 (PV-4468)
- Fixed an exception in the copy transformation for **Jama** that was raised when the target project does not allow item types that occur in the source project. (**PV-5397**)
- Fixed a string encoding issue that could cause pvSCL calculations in **IBM DOORS Classic** to be interpreted incorrectly if they contained non-ASCII characters. (**PV-5403**)
- Improved handling of known server preferences (e.g., pure::variants Model Server, IBM DOORS Next server) in pure::variants. (PV-5113)





Tool Version Updates



The following new versions of 3rd party tools have been verified to work with pure::variants 6.0.4:

- Windchill RV&S 13.2.0.0
- codebeamer 22.04-SP6
- Eclipse 2023-09
- IBM ELM 7.0.1 SR1 iFix018

- IBM ELM 7.0.2 iFix025
- IBM ELM 7.0.2 iFix026
- IBM ELM 7.0.3



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